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Inventor(s): PARIS LUIGI (IT)
Applicant(s):: PARIS LUIGI (IT)
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Abstract

The invention concerns a robot apt to climb along a trestle structure, particularly the trestle of a pole for high-voltage overhead electric lines, in order to carry work-tools from the base to the top of the pole. According to the invention, the robot comprises: a main support body (1); at least one slide (7) movable along said body (1) according to a main moving axis substantially vertical and parallel to the pole surface; at least a first gripping hand (3) carried by the support body (1) and at least a second gripping hand (4) carried by the slide (7); shifting means to move said gripping hands (3,4) according to a transversal axis, substantially perpendicular to the pole surface, each gripping hand (3,4) being moreover equipped with clamping means to grip the angle bar forming an upright or a ledger of the trestle structure; at least one position sensor (2) associated to the main body (1), to acquire position data concerning the configuration of the trestle; and a processing system which controls the movements of said slide (7) and of said gripping hands (3,4), also using and/or storing the signals sent from said sensors (2).

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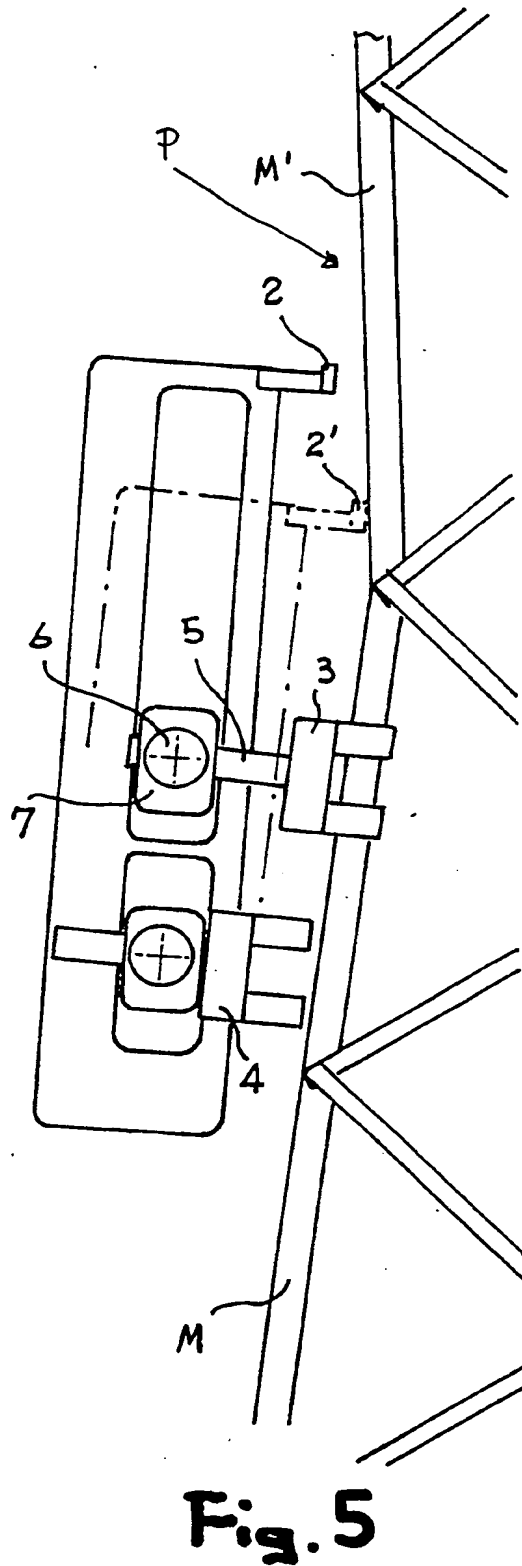
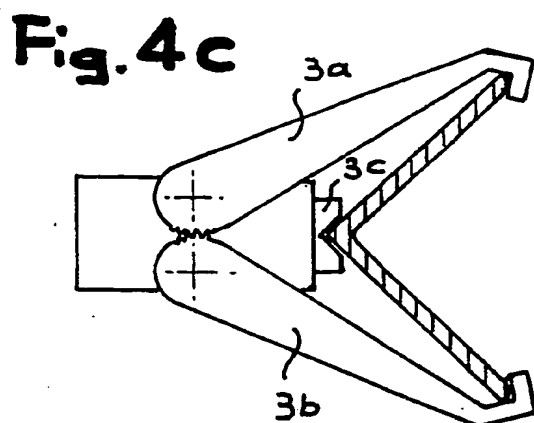
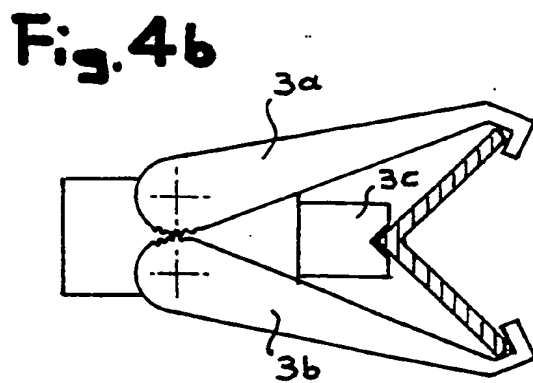
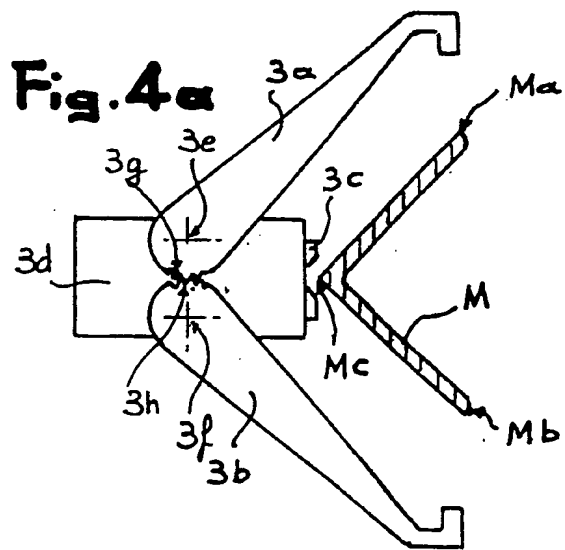


Fig. 3g

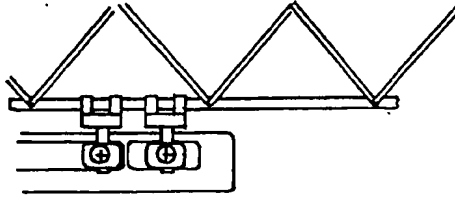


Fig. 3f

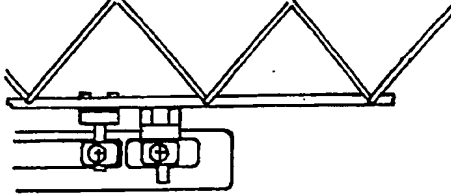


Fig. 3e

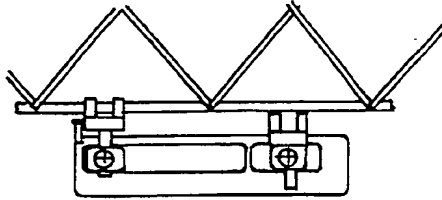


Fig. 3d

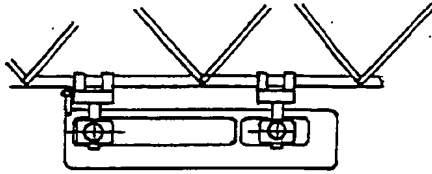


Fig. 3c

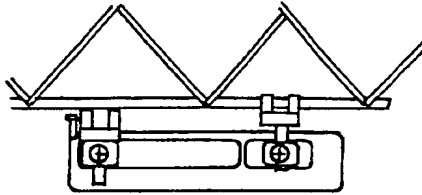


Fig. 3b

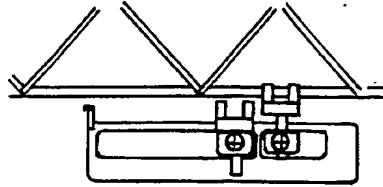


Fig. 3a

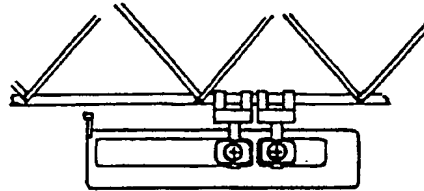


Fig. 6d

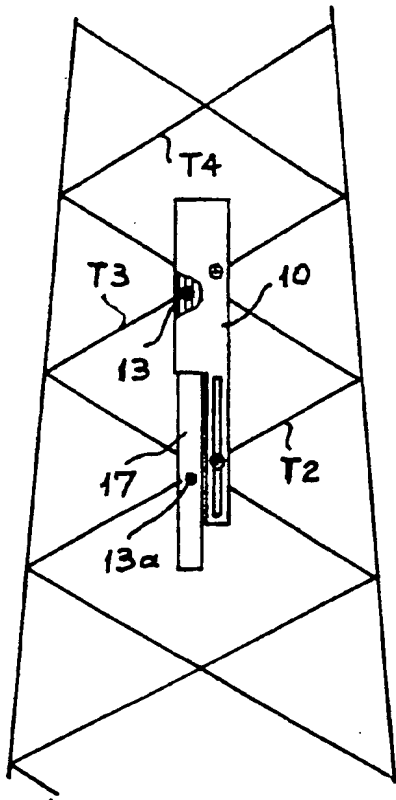
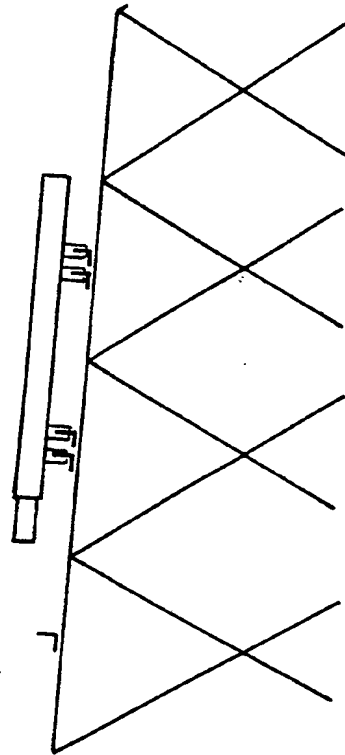


Fig. 7d



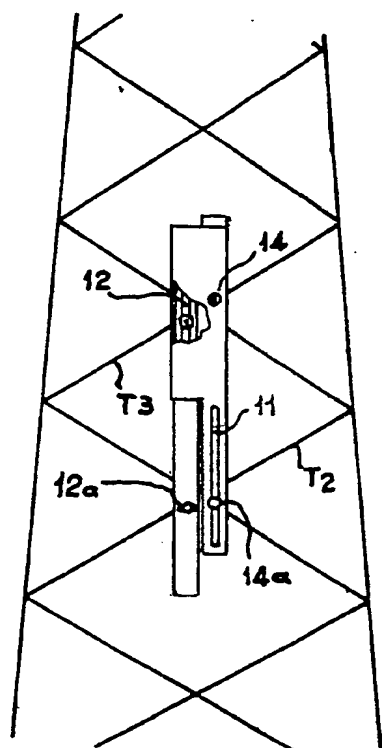


Fig. 6c

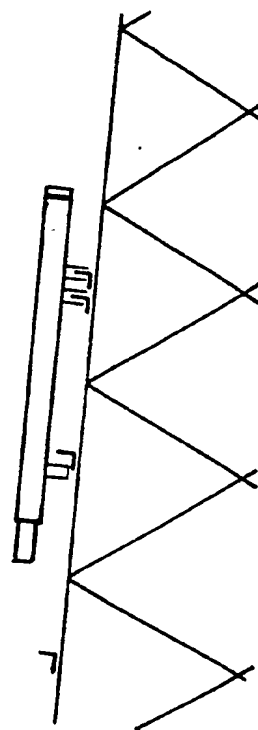


Fig. 7c

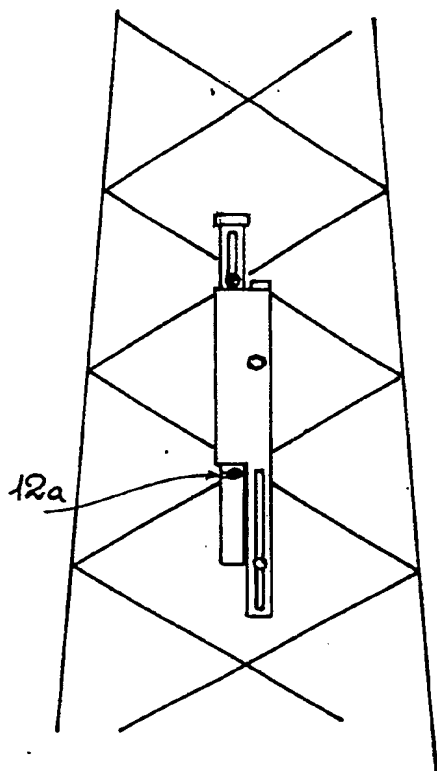


Fig. 6b

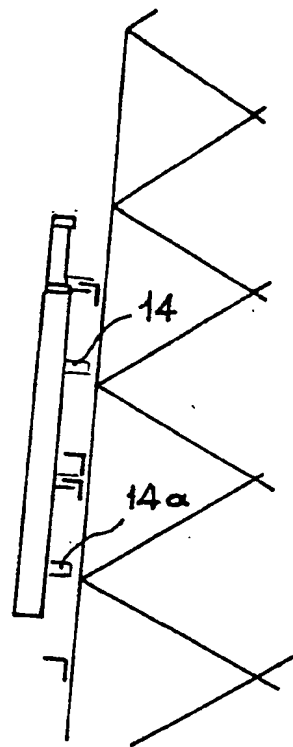


Fig. 7b

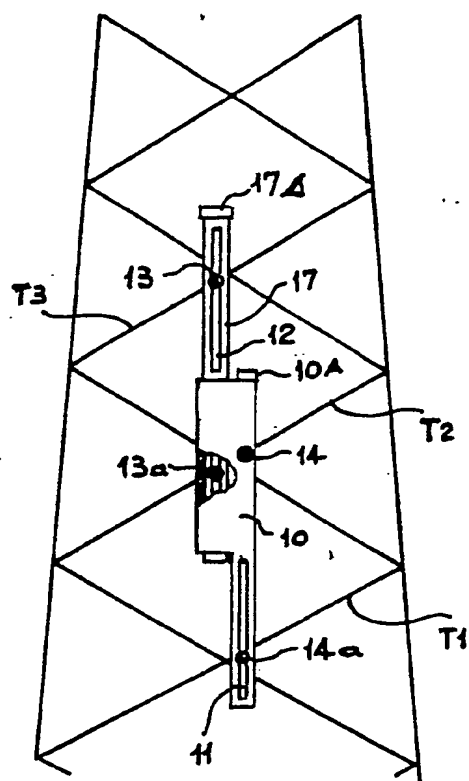


Fig. 6a

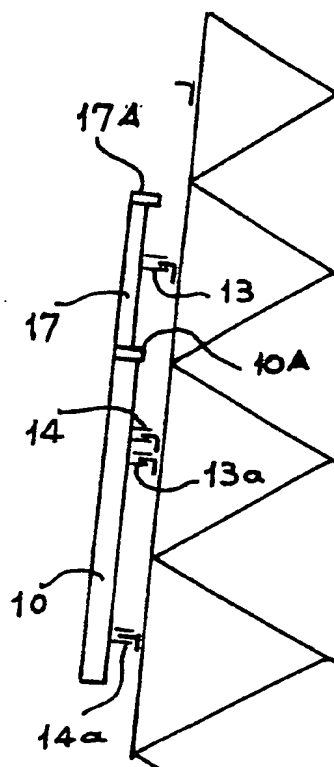


Fig. 7a

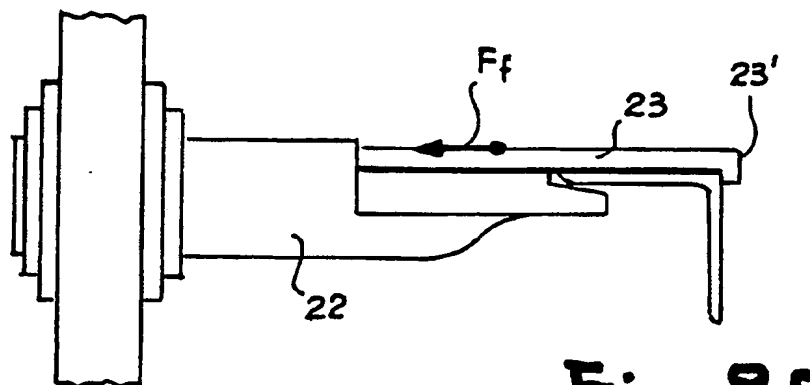
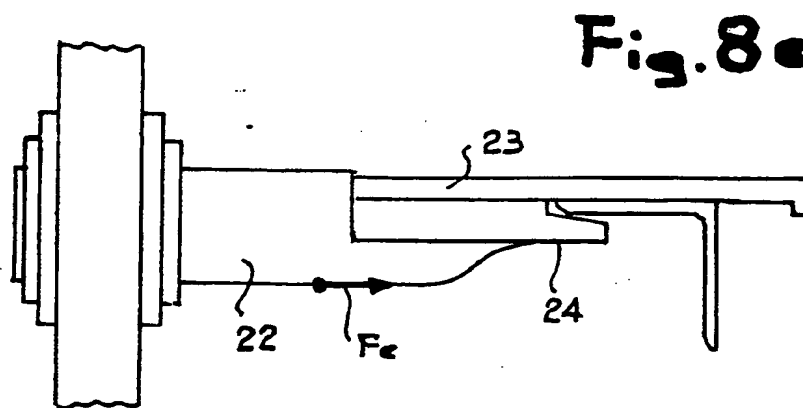
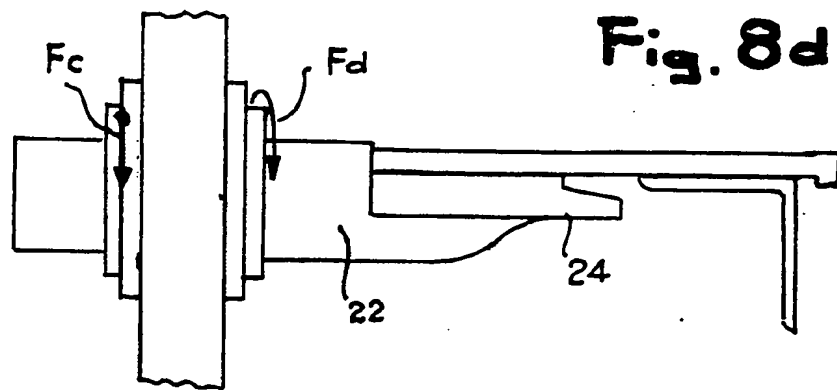


Fig. 8a

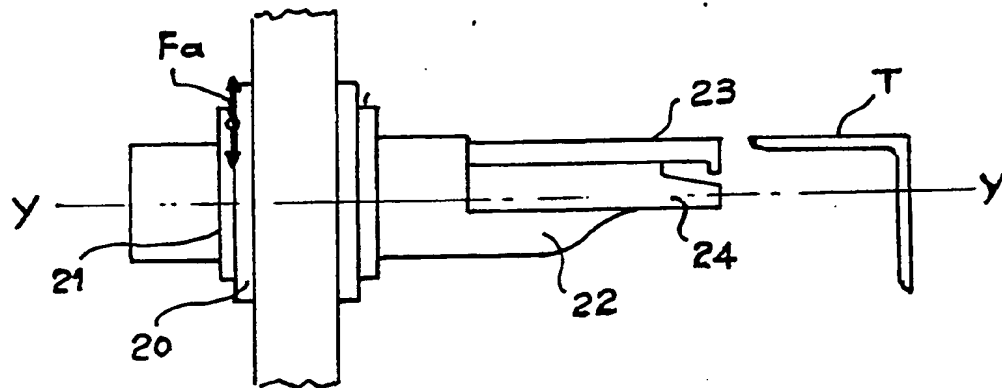


Fig. 8b

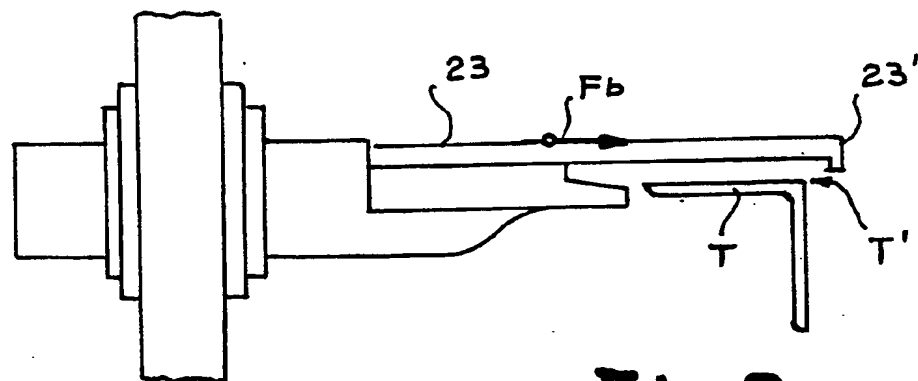
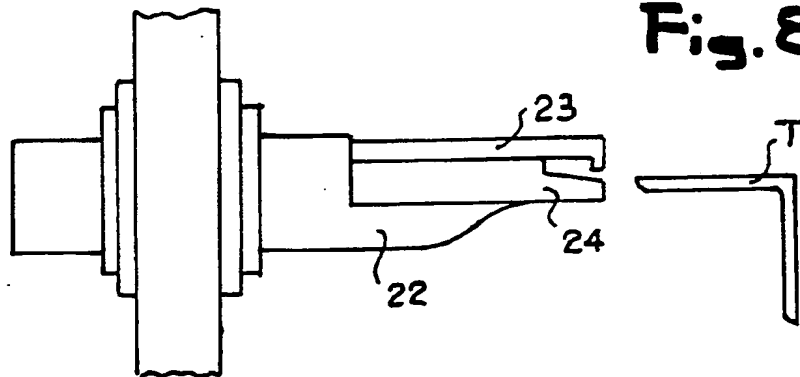


Fig. 8c